

ABSTRACT OF THE DISCLOSURE

JACK FOR DISPLACEMENT OF AN ANODE FRAME OF AN
ELECTROLYTIC CELL FOR THE PRODUCTION OF ALUMINIUM

The invention relates to jacks used for the displacement of anode frames of electrolytic cells designed for the production of aluminium. According to the invention, the jack (100, 100') comprises a sleeve
5 (120) provided with an opening (121), an actuation rod (140) comprising an axial cavity (141) and a thread (142) and capable of moving in the said opening, a drive screw (130) inserted in the said axial cavity and capable of cooperating with the said thread so as to
10 displace the said rod (140) in the sleeve (120) and in the said opening (121), a toothed drive wheel (150) coupled to the drive screw (130), and a worm screw that can be connected to the shaft of a drive motor (200) and that can cooperate with the drive wheel (150) so as
15 to rotate it, and is characterised in that the centre-to-centre distance E between the axis R of the drive wheel and the axis V of the worm screw is between 100 and 350 mm, and in that the reduction ratio RR between the worm screw and the drive wheel is between 300:1 and
20 80:1. This jack is capable of simultaneously achieving relatively high powers and pull forces, while remaining within a relatively limited volume.

Figure 3.